ABSTRACT

The present invention provides a vehicle control system, which easily carries out modifications such as updating and improvement of the system, improving the transmission efficiency of the data and responsiveness of the system, and allowing the redundancy to be effectively used even during normal operation of the network. In the vehicle control system, an electric control device is formed comprising a cooperative control ECU which acts as a server apparatus and a plurality of subsystems which are connected to this cooperative control ECU and act as client apparatuses. The plurality of subsystems comprise, for example, a motor control ECU, a reactive gas supply control ECU, an electrical power distribution control ECU, and a cell voltage detection control ECU. Each of the ECUs which forms each of the subsystems carries out I/O processing for the control signals that are sent to and received from the cooperative control ECU and shut down processing and protective processing during abnormal operation such as a network stoppage. The cooperative ECU carries out control operations for controlling each of the ECUs and the controlled objects based on control signals obtained from the I/O processing of each of the ECUs.